

INTERNATIONAL COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--|---|--|
| Applicant's or agent's file reference 32319 PC01 | FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. | |
| International application No. PCT/DK 03/00512 | International filing date (day/month/year) 25/07/2003 | (Earliest) Priority Date (day/month/year) 26/07/2002 |
| Applicant OBI APS | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the International search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of Invention is lacking (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

METHOD, SYSTEM AND DEVICES FOR CONVERTING VENOUS BLOOD VALUES TO ARTERIAL BLOOD VALUES

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

2

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK 03/00512

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: **1-17**
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-25

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-25

A method and system for estimating/calculating arterial blood values from a venous blood sample, claims 1-25.

2. Claims: 26-30

A device for anaerobic drawing of venous blood reducing residual gases in the blood sample claims 26-30.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 1-17

Claims 1-17 relate to a diagnostic method practised on the human body, in this case a method for blood evaluation useful for treatment of ill patients. Thus, the International Search Authority is not required to carry out an international search for these claims (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for claims 1-17 based on the described system in claims 18-25.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/BR 03/00512A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B5/145 G01N33/49

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, MEDLINE, BIOSIS, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|---|-----------------------|
| P,A | US 2002/120185 A1 (JOHNSON ROYCE) 29 August 2002 (2002-08-29) abstract; figures 1-3 --- | 1-25 |
| A | US 6 206 830 B1 (KIANI-AZARBAYJANY ESMAIEL ET AL) 27 March 2001 (2001-03-27) the whole document --- | 1-25 |
| A | US 6 163 715 A (REUSS JAMES L ET AL) 19 December 2000 (2000-12-19) abstract; figures 1,2 --- | 1-25 |
| A | WO 00 45702 A (KJAERGAARD SOREN CHRISTENSEN ;REES STEPHEN EDWARD (DK); THORGARD) 10 August 2000 (2000-08-10) page 16, line 10 - line 17 page 17, line 17 -page 18, line 30 abstract; figures 4,10 --- | 1-25 |
| | -/- | |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

21 October 2003

Date of mailing of the international search report

07.04.2004

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 93/00512

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | US 5 687 718 A (FISCHER BERNHARD ET AL) 18 November 1997 (1997-11-18) column 1, line 5 - line 11; figures 1,2 --- | 1-25 |
| A | S.E. REES ET AL: "A dynamic model of carbon dioxide transport in the blood" IFAC SYMPOSIUM ON MODELLING AND CONTROL IN BIOMEDICAL SYSTEMS, 23 - 26 March 1997, XP002258602 Warwick, England cited in the application page 57 -page 62 | 1-25 |
| A | STEPHEN E. REES ET AL: "Acid-base chemistry of the blood - a general model" COMPUTER METHODS AND PROGRAM IN BIOMEDICINE, vol. 51, 1996, pages 107-119, XP002258603 ISSN: 0169-2607 cited in the application the whole document ----- | 1-25 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/DR 03/00512

| Patent document cited in search report | | Publication date | | Patent family member(s) | | Publication date |
|--|----|------------------|------|--|--|------------------|
| US 2002120185 | A1 | 29-08-2002 | NONE | | | |
| US 6206830 | B1 | 27-03-2001 | | US 6036642 A 14-03-2000 US 5769785 A 23-06-1998 US 5482036 A 09-01-1996 US 2003097049 A1 22-05-2003 US 2001029326 A1 11-10-2001 US 2003036689 A1 20-02-2003 US 2002128544 A1 12-09-2002 US 5490505 A 13-02-1996 US 5632272 A 27-05-1997 US 6157850 A 05-12-2000 AT 184716 T 15-10-1999 AU 658177 B2 06-04-1995 AU 1536992 A 06-10-1992 CA 2105682 A1 08-09-1992 DE 69229994 D1 21-10-1999 DE 69229994 T2 27-04-2000 EP 1357481 A2 29-10-2003 EP 0574509 A1 22-12-1993 EP 0930045 A2 21-07-1999 JP 3363150 B2 08-01-2003 JP 6507485 T 25-08-1994 RU 2144211 C1 10-01-2000 US 2002077536 A1 20-06-2002 WO 9215955 A1 17-09-1992 US 6236872 B1 22-05-2001 US 6263222 B1 17-07-2001 | | |
| US 6163715 | A | 19-12-2000 | | US 5842981 A 01-12-1998 AU 1839300 A 19-06-2000 BR 9915798 A 04-06-2002 CA 2354064 A1 08-06-2000 CN 1335756 T 13-02-2002 EP 1146812 A1 24-10-2001 JP 2003505115 T 12-02-2003 WO 0032099 A1 08-06-2000 US 2001005773 A1 28-06-2001 AU 720111 B2 25-05-2000 AU 3802997 A 09-02-1998 BR 9710330 A 11-01-2000 CA 2260928 A1 22-01-1998 CN 1225562 A 11-08-1999 DE 69724822 D1 16-10-2003 EP 0955869 A1 17-11-1999 JP 2000514683 T 07-11-2000 WO 9802087 A1 22-01-1998 | | |
| WO 0045702 | A | 10-08-2000 | | AU 2278800 A 25-08-2000 CA 2359575 A1 10-08-2000 WO 0045702 A1 10-08-2000 EP 1152690 A1 14-11-2001 JP 2002536039 T 29-10-2002 | | |
| US 5687718 | A | 18-11-1997 | | DE 4424267 A1 18-01-1996 GB 2291972 A ,B 07-02-1996 | | |